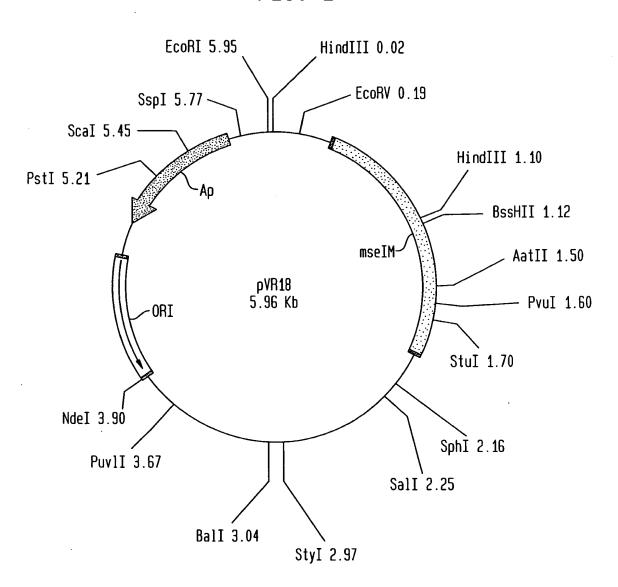


FIG. 1



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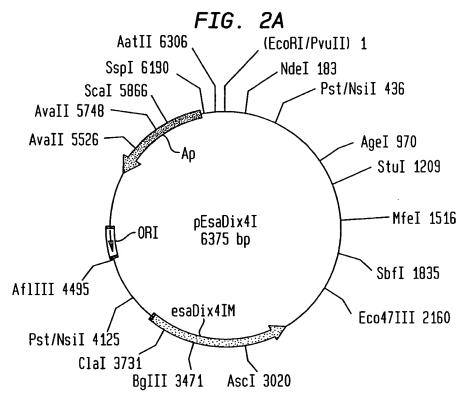
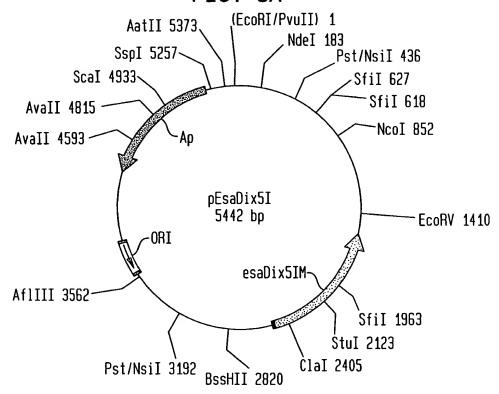


FIG. 3A



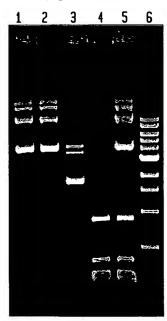


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FIG. 2B



FIG. 3B





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1 ATGCCTATCTCGACCGTCTGGACGCCGGACGACGACCTCATC SEQ ID NO: 1 SEQ ID NO:2 M P I S T V W T P D G D D L I 46 GTGGAGGCGGACAACCTCGATTTCATTCAAACGCTCCCCGACGCG V E A D N L D F I Q T L P D A 91 AGCTTCCGAATGATCTACATCGATCCGCCGTTCAACACAGGGCGA SFRMIYIDPPFNTGR 136 ACGCAGCGGCTTCAGTCGCTCAAGACGACCCGCTCGGTCACAGGG TORLOSLKTTRSVTG 181 TCGCGAGTCGGCTTCAAAGGCCAGACGTACGACACGGTCAAGAGC SRVGFKGQTYDTVKS 226 ACTCTGCACTCGTATGACGACGCTTTCACCGACTATTGGTCGTTC LHSYDDAFTDYWSF 271 CTCGAACCGCGTCTCCTGGAGGCTTGGCGGTTGCTCACCCCTGAC LEPRLLEAWRLLTPD 316 GGCGCGCTCTATCTTCATCTGGATTACCGCGAGGTTCACTACGCC GALYLHLDYREVHYA 361 AAGGTCGTCCTCGACGCGATGTTCGGACGCGAAAGCTTCCTGAAC KVVLDAMFGRESFLN 406 GAGCTGATCTGGGCGTACGACTACGGCGCGCGCTCGAAGAGCAAG ELIWAYDYGARSKSK 451 TGGCCCACCAAGCACGACAACATCCTCGTGTATGTGAAGGACCCG WPTKHDNILVYVKDP 496 AACAACTACGTCTGGAACGGTCAGGATGTAGATCGCGAGCCCTAC N N Y V W N G Q D V D R E P Y 541 ATGGCGCCCGGGCTCGTTACACCCGAGAAGGTAGCGCTTGGCAAG MAPGLVTPEKVALGK 586 CTGCCCACCGACGTCTGGTGGCACACAATCGTTCCGCCTGCGAGC LPTDVWWHTIVPPAS 631 AAAGAGCGCACCGGGTACGCGACACAGAAGCCGGTCGGCATCATC KERTGYATQKPVGI 676 CGTCGCATGATTCAGGCGAGCAGCAATGAAGGCGACTGGGTTCTG R R M I Q A S S N E G D W V L 721 GATTTCTTCGCTGGTAGTGGGACGACCGGCGCCGCCGCCGCCAG D F F A G S G T T G A A A R Q 766 CTCGGACGCCGTTTTGTGCTCGTAGACGTCAACCCAGAAGCAATC LGRRFVLVDVNPEAI 811 GCGGTAATGGCAAAACGGTTGGATGACGGGGCATTGGACACCAGC A V M A K R L D D G A L D T S 856 GTGACGATCGTGCAGACTCCCCAGAGTGACCCACGAACCGACGGA V T I V Q T P Q S D P R T D G 901 TGA 903



esaDix4IM

SEQ ID NO:3 1 AŢĠĊĊŢĀÇĀĊŢĠĠĂŢŢĠĠĊĊĠĠŢĀŖĀĊĀĠŢŢĀĀĠĊŢŢĊĊĊĀĊĊĀ A T S L H L E S V V T E G A E 91 TCACCGCCTAATCGTCTGATTTGGGCGGACAACCTGCCGCTAATG S P P N R L I W A D N L P L M 136 GTAGATTTGTTGGCCGAATATGAAGGGAAAATCGATCTGATCTAC V D L L A E Y E G K I D L I Y
181 GCCGATCCCCCTTTTTTTACGGATCGTACTTATGCGGCGCGAATT A D P P F F T D R T Y A A R I 226 GGTCATGGGGAGGATTCGCGTCGTCCACAAACCTGGCAGCTTGCA G H G E D S R R P Q T W Q L A 271 GAAGGATATACGGACGAGTGGAAGGATTTAGATGAATACCTGGAC E G Y T D E W K D L D E Y L D 316 TTCCTTTATCCACGCCTGGTACTGATGTATCGACTGCTGGCACCA FLYPRLVLMYRLLAP 361 CACGĞAACGCTCTACTTGCACCTGGACTGGCACGCCAATGCCTAC H G T L Y L H L D W H A N A Y
406 GTACGTGTACTGCTTGATGAGATCTTCGGGCGACAGCGGTTTCTC V R V L L D E I F G R Q R F L 451 AACGAGATCGTCTGGATCTATCACGGCCCTCAGCCATCCGACGC N E I V W I Y H G P S A I R R 496 GCCTTCAAGCGCAAACATGATACCATCTTGGTTTATGTGAAAGGT A F K R K H D T I L V Y V K G 541 GAAAACTATACATICAATGCGGATGCGGTTCGTCAACCTTACCAT ENYTENADAYROPYH 586 CCGAGCACNCATAAGACCTICGCTTCCTCCCCGAAGGCCGGCTIT PSTHKTFASSPKAGF G K V P D L Q R G K V P E D W 676 TGGTATTTTCCGGTCGTGGCCCGTCTACACCGAGAACGGAGCGGC W Y F P V V A R L H R E R S G
721 TATCCGACTCAAAAGCCTCAAGCCTTGCTGGAGCGGATCCTGCTG Y P T O K P O A L L E R I L L
766 GCCTCCTCGAACGCAGGCGATCTGGTGGCAGACTTCTTCTGCGGC A S S N A G D L V A D F F C G 811 TCAGGGACAACCGCTGTGGGTGGCAGCCCGTCTGGGACGGCGCTTC S G T T A V V A A R L G R R F 856 CTGGTCAACGATGCAAGCTGGCGCGCCGTTCATGTGACACGCACA LVNDASWRAVHVTR 901 CGCTTGCTACGCGAGGGAGTAAGTTTCACTTTTGAACGCCAGGAA RLLREGVSFTFERQE 946 ACTITTACTCTACCTATCCAGCCACTTCCACCAGATTGGTTGATC TFTLPIQPLPPDWL 991 ATCGCCGAGGAGCAGATTCGCCTCCAAGCACCCTTTCTCGTAGAT I A E E Q I R L Q A P F L V D 1036 TTTTGGGAAGTGGACGATCAATGGGATGGCAAAATCTTCCGCAGC F W E V D D Q W D G K I F R 1081 CGTCATCAAGGCTTACGCTCCCGCCTTCAGGAGCAGGCGCCGCTC R H Q G L R S R L Q E Q A P 1126 TCTCTACCATTGACCGGGAATGGACTGTTGTGTGTACGGGTAGTG S L P L T G N G L L C V R V V 1171 AGCCGTGAAGGGGAATACTATGAGTTCACAGGTCGAGCCGATAGC SREGEYYEFTGRADS 1216 CCTCACCCCGTATCGTTTTGA 1236 PHPVSF\*



1 ATGATCACGAACCTGATGGAAAACGATGTCATTGGCAAAATCTAC SEO ID NO:5 SEQ ID NO:6 MITNLMENDVIGKIY 46 TTTGCCGACAACATGGAAGTCCTGCGAGGGCTTCCGGCGGCGTCC FADNMEVLRGLPAAS 91 GTGGACCTGATCTACATCGATCCTCCGTTCAACACCGGAAAGGTT V D L I Y I D P P F N T G K V 136 CAGGAGCGCACTCAGCTCAAAACGGTGCGCTCCGAGTGGGGCGAT QERTQLKTVRSEWGD 181 CGCGTCGGATTCCAGGGCCGTCGCTACGAAAGCATCGTCGTGGGT RVGFQGRRYESIVVG 226 AAGAAGCGCTTTACCGACTTCTTCGACGACTATCTGGCTTTCCTG KKRFTDFFDDYLAFL 271 GAACCGCGCCTGGTCGAAGCCCATCGTGTTCTGGCGCCGCACGGG E P R L V E A H R V L A P H G 316 TGCCTCTACTTTCACGTCGACTACCGCGAGGTGCACTACTGTAAG CLYFHVDYREVHYCK 361 GTCCTTCTTGACGGCATCTTCGGTCGCGAGGCCTTTCTCAACGAG V L L D G I F G R E A F L N E 406 ATCATCTGGGCCTACGATTACGGCGGGCGTCCGAAGGACAGGTGG IIW AYDYGGRPKDRW 451 CCTCCTAAGCACGACAACATCCTGCTCTACGCCAAGACTCCCGGT P P K H D N I L L Y A K T P G 496 CGCCACGTGTTCAATGCGGACGAAATCGAGCGCATTCCCTACATG RHVFNADEIERIPYM 541 GCTCCGGGCCTGGTTGGCCCCGAAAAGGCAGCCCGTGGAAAACTG A P G L V G P E K A A R G K L 586 CCAACCGACACGTGGTGGCATACGATCGTTCCGACCAGCGGCTCC PTDTWWHTIVPTSGS 631 GAGAAGACCGGGTATCCAACCCAGAAACCTTTAGGGATTCTCCGC EKTGYPTQKPLGILR 676 CGTATTGTGCAGGCATCGTCTCATCCGGGGGCAGTCGTGCTCGAC RIVQASSHPGAVVLD 721 TTCTTCGCCGGCAGTGGGACAACAGGGGTAGCGGCTTTTGAGTTG F F A G S G T T G V A A F E L 766 GGCCGGCGTTTCATTCTGGTCGATAACCATCCGGAGGCCCTCCAG GRRFILVDNHPEALO **811 GTGATGGCCAGGCGCTTCGACGGCATCGAGGGGATCGAATGGGTG** V M A R R F D G I E G I E W V 856 GGCTTCGATCCGACACCGTACCAGAAGGGCGCAAAGCAGCGCCGC GFDPTPYQKGAKQRR 901 TCCTGCCCGGCGCCCACCGGGTAA 924

S C P A P T G \*

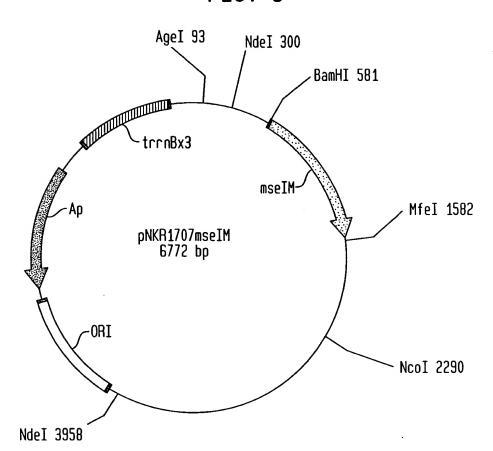


mseIR

1 GTGACCCACGAACCGACGGATGATCCCGATTTCATAGTGATGGCC SEQ ID NO:7 M T H E P T D D P D F I V M A SEQ ID NO:8 46 GCGAGCGCGGCGAACCTCGCTGATCGGTACGTAGCGAGTGAAGAC A S A A N L A D R Y V A S E D 91 GACCCCTGGGTCGGCAGCCCGTTCGAGTGGATCCTTCGCGTTCCA D P W V G S P F E W I L R V P 136 TCCAGAACGAAGGGCGCGGTCGGTGAGCTGCTCGTGAGCGAATGG SRIKGAVGELLVSEW 181 GCTAATGCCAAAGGCCTCCGTGTGAAGAGGTCGGGGTCCAGCGAT A N A K G L R V K R S G S S D 226 GCGGACCGCGTGATCAACGGGCATCGCATCGAGATCAAGATGTCG A D R V I N G H R I E I K M S 271 ACTTTGTGGAAGTCCGGCGGCTTCAAGTTTCAGCAGATCCGGGAT TLWKSGGFKFQQIRD 316 CAGGAGTACGACTTTTGCCTCTGCCTTGGGATCAGCCCGTTCGAA QEYDFCLCLGISPFE 361 GTGCACGCGTGGCTGCCCAAAGACCTATTGCTTGAGTACGTG V H A W L L P K D L L L E Y V IGHMGQHTGASGSDT 451 GCGTGGCTGGGGTTCCCAGCGGACGAGCCGTATGACTGGATGCGC AWLGFPADEPYDWMR 496 CCTTTCGGAGGTCGCTTAGGTCACGTCGAAGATCTCCTCCTCGCG P F G G R L G H V E D L L L A 541 GCCGGCCCCGGTCCCTACTGA 561 AGPGPY



FIG. 8







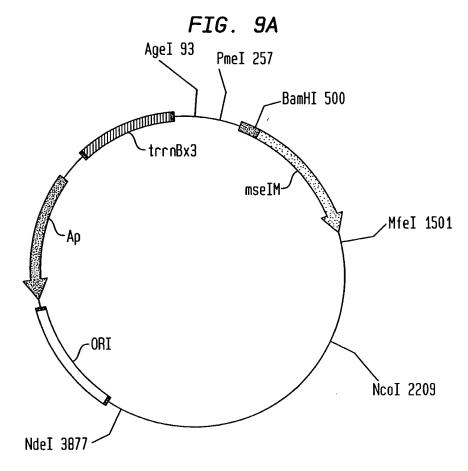


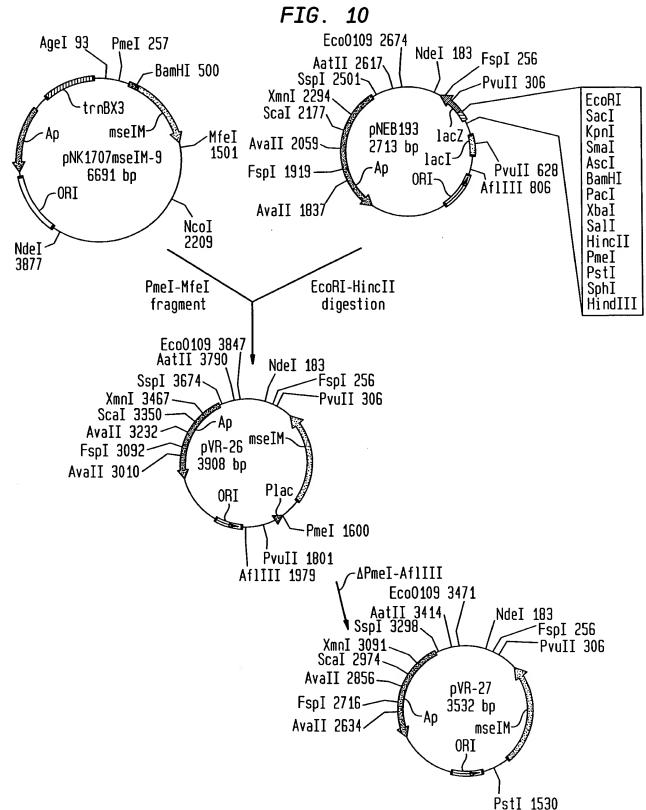
FIG. 9B

SEQ ID NO:9

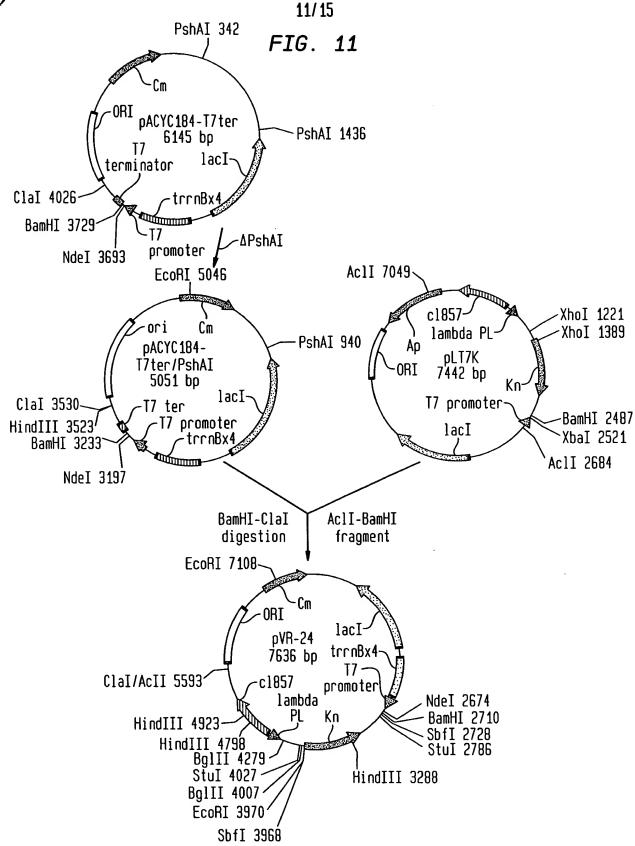
**TGGATCC** 



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FIG. 12A

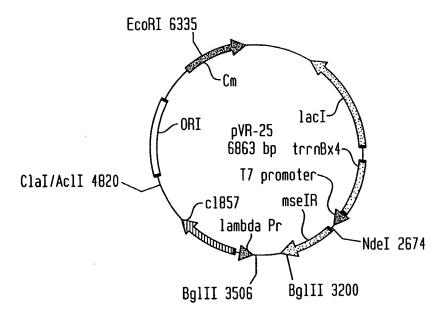


FIG. 13

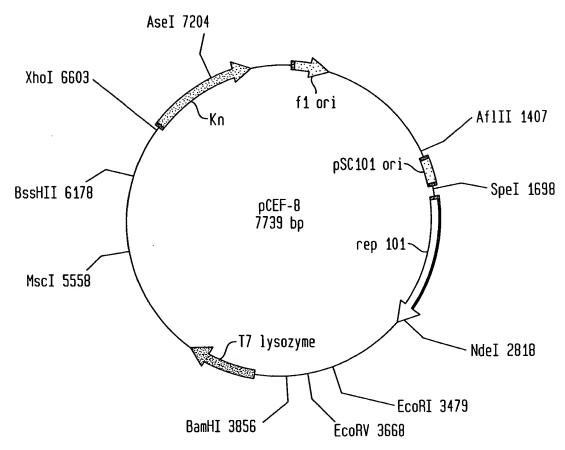
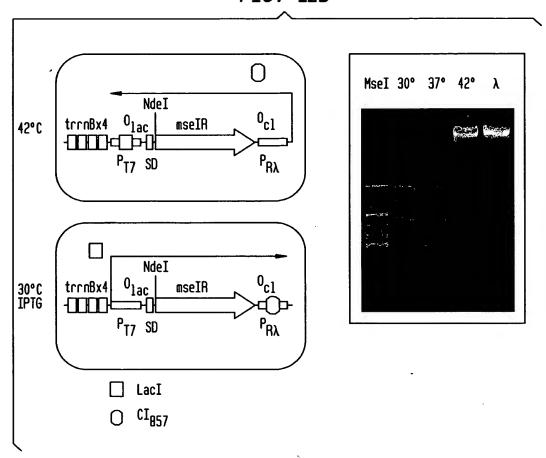




FIG. 12B

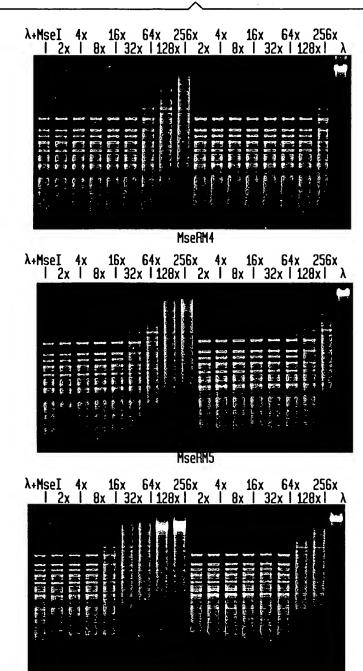




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## FIG. 14.



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FIG. 15

